



Finite element and error measures: basis and extensions;

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Short description of the lecture:

The building of models and their numerical simulation is more than ever a in the center of interest in mechanics. A constant preoccupation, for both industrial and research, is to control these models which today can be very complex. We propose here to revisit the core concepts in order to master the output of a Finite Element Analysis results that contain an error due to the discretization or to the introduced parameters.

Contents:

1. Basis on approximations/discretization methods
2. Primal and Dual Finite Element Method in mechanical engineering
3. Error measurements.
4. Extensions to: Non-linearity, stochasticity, others physics...
5. Verification and Validation

Terminy wykładów			
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